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OM protein - protein search, using sw model

Run on: December 13, 2002, 21:04:38 ; Search time 70 Seconds
(without alignments)
102.793 Million cell updates/sec

Title: US-09-659-737a-2

Perfect score: 293
Sequence: 1 HRDIKAGNLTLEKIEHNDI.....EMHRTTKMSTAGTYAMMAPE 54

Scoring table:
BLOSOM62
Gapop 10.0 , Gapext 0.5

Searched: 908470 seqs, 133250620 residues

Total number of hits satisfying chosen parameters: 908470

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

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4: /SID2/gcgdata/geneseq/geneseq-emb1/AA1984.DAT: *
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14: /SID2/gcgdata/geneseq/geneseq-emb1/AA1994.DAT: *
15: /SID2/gcgdata/geneseq/geneseq-emb1/AA1995.DAT: *
16: /SID2/gcgdata/geneseq/geneseq-emb1/AA1996.DAT: *
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18: /SID2/gcgdata/geneseq/geneseq-emb1/AA1998.DAT: *
19: /SID2/gcgdata/geneseq/geneseq-emb1/AA2000.DAT: *
20: /SID2/gcgdata/geneseq/geneseq-emb1/AA2001.DAT: *
21: /SID2/gcgdata/geneseq/geneseq-emb1/AA2002.DAT: *
22: /SID2/gcgdata/geneseq/geneseq-emb1/AA2002.DAT: *
23: /SID2/gcgdata/geneseq/geneseq-emb1/AA2002.DAT: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	293	100.0	54	22 AAB20333	Human MLK4 partial
2	282	96.2	719	22 AAB85513	Human protein kinase
3	282	96.2	1021	23 ABB61000	Novel human protein
4	282	96.2	1036	22 ABB80923	Novel human protein
5	239	81.6	1046	22 AAE11775	Human kinase (PKIN)
6	239	81.6	1097	23 AAE21717	Human PKIN-12 prot
7	231	78.8	847	23 AAE22763	Human mitogen acti
8	218	74.4	138	22 AAO55527	Human polypeptide
9	184	62.8	1020	22 ABB58999	Drosophila melanog
10	173	59.0	45	16 AAB85933	Protein tyrosine-k

11	139.5	47.6	977	22 ABB71694	Drosophila melanog
12	124.5	42.5	859	16 AAB82886	Human leucine zipp
13	124.5	42.5	859	18 AAB31227	Human leucine-zipp
14	124.5	42.5	888	23 ABB57049	Mouse ischemic co
15	122	41.6	276	21 AAG28423	Arabidopsis thalia
16	122	41.6	276	21 AAG50302	Arabidopsis thalia
17	122	41.6	338	21 AAG28422	Arabidopsis thalia
18	122	41.6	338	21 AAG50301	Arabidopsis thalia
19	122	41.6	346	21 AAG28421	Arabidopsis thalia
20	122	41.6	346	21 AAG50300	Arabidopsis thalia
21	121.5	41.5	1490	22 ABB9123	Novel human diagno
22	117	39.9	970	22 AAB50443	Barley EDR1. Hord
23	115.5	39.4	183	21 AAB25337	Pinus radiata cell
24	114	38.9	141	21 AAG03583	Human secreted pro
25	114	38.9	349	22 AAG75571	Human colon cancer
26	114	38.9	455	21 AAB18657	A human regulator
27	114	38.9	455	21 AAB32278	Human survival reg
28	114	38.9	455	21 AAB43321	A human cardiovasc
29	114	38.9	473	22 AAB25322	Human protein sequ
30	114	38.9	800	22 AAB71957	Human TGF-beta rec
31	114	38.9	800	22 AAB65673	Novel protein kina
32	110.5	37.7	1151	23 AAB92177	Herbicideally activ
33	107.5	36.7	367	21 AAG32053	Arabidopsis thalia
34	107.5	36.7	369	21 AAG32052	Arabidopsis thalia
35	107.5	36.7	407	21 AAG32051	Arabidopsis thalia
36	107	36.5	903	22 AAB50440	Rice EDR1. Oryza
37	106	36.2	731	22 AAB74209	Protein encoded by
38	106	36.2	731	23 ABB93202	Herbicideally activ
39	106	36.2	933	22 AAB50437	Arabidopsis thalia
40	105.5	36.0	649	23 ABB91538	Herbicideally activ
41	105.5	36.0	988	23 ABB92320	Herbicideally activ
42	105	35.8	844	23 ABB93030	Herbicideally activ
43	104.5	35.7	369	21 AAG32172	Arabidopsis thalia
44	104.5	35.7	374	21 AAG32171	Arabidopsis thalia
45	104.5	35.7	381	23 ABB91540	Herbicideally activ

ALIGNMENTS

RESULT 1	
AAB20333	
ID	AAB20333 standard; Protein: 54 AA.
XX	
AC	AAB20333;
XX	
DT	29-MAY-2001 (first entry)
XX	
DE	Human MLK4 partial polypeptide.
XX	
KW	MLK4: human; c-Jun N-terminal kinase kinase; JNKKK;
KW	protein kinase; ultraviolet radiation; skin damage; inflammation;
KW	psoriasis; radioprotective; antiinflammatory; antiproliferative;
KW	vulnerary.
XX	
OS	Homo sapiens.
XX	
PN	EP1085093-A2.
XX	
PD	21-MAR-2001.
XX	
PF	12-SEP-2000; 2000EP-0307866.
XX	
PR	20-SEP-1999; 99US-0155029.
XX	
PA	(UYNY) UNIV NEW YORK STATE.
XX	
PI	Blumenberg M, Gazel AM;
XX	
DR	WPI: 2001-236883/25.
DR	N-Psdb: AAF30487.
XX	
PT	New polynucleotides encoding c-Jun N-terminal kinase kinases

PT 1.e. MLK4, PAK4, associated with skin damage for use in drug screening
PT and development -
XX
PS Claim 1; Page 23; 51pp; English.
XX
CC The present sequence is that of a MLK4 polypeptide, as predicted
CC from an isolated MLK4 partial cDNA (see AAF30487). MLK4 is 1 of 4
CC novel c-Jun N-terminal kinase kinase kinases (JNKKK) of the
CC invention. It has 50-78% identity to members of the MLK family of
CC JNKKKs. MLK4 is expressed in keratinocytes, kidney and pancreas,
CC but not in brain, placenta, lung, liver or skeletal muscle. The
CC transcript size is 4.8 kb. MLK4, PAK4, and YSK2 polynucleotides
CC and their gene products are useful for elucidation of the components
CC involved in the cellular response to ultraviolet radiation. They can
CC be used in drug discovery, by screening for compounds that affect the
CC activity of a JNKKK or which affect the expression of a gene encoding
CC a JNKKK. Particularly useful are drugs that reduce UV light-induced
CC damage of the skin, inflammation and psoriasis, and drugs that
CC enhance wound healing.
XX
SQ Sequence 54 AA;
Query Match 100.0%; Score 293; DB 22; Length 54;
Best Local Similarity 100.0%; Pred. No. 4.6e-36;
Matches 54; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 HRDIKAGNILLLEKIEHDDICNKTITDGLAREWHRTTKMSTAGYAMMAPE 54
Db 1 HRDIKAGNILLLEKIEHDDICNKTITDGLAREWHRTTKMSTAGYAMMAPE 54
RESULT 2
AAB85513
XX AAB85513 standard; protein; 719 AA.
XX
AC AAB85513;
XX
DT 25-SEP-2001 (first entry)
XX
DE Human protein kinase SGR067.
XX
KW Protein kinase; enzyme; cytosolic; neurotrophic; neuroprotective; human;
KW antiparkinsonian; virucide; antibacterial; antifungal; antiinflammatory;
KW analgesic; hypotensive; hypertensive; immunosuppressive; antiasthmatic;
KW antipsoriatic; antirheumatic; antiarthritic; ophthalmological; anorectic;
KW osteopathic; thrombolytic; antiarteriosclerotic; antiasthmatic;
KW vasotropic; antidiabetic; gene therapy.
XX
OS Homo sapiens.
XX
PN WO200155356-A2.
XX
XX 02-AUG-2001.
PD
XX
PF 25-JAN-2001; 2001WO-US02337.
XX
XX 25-JAN-2000; 2000US-0178078.
PR 31-JAN-2000; 2000US-0179364.
PR 17-FEB-2000; 2000US-0183173.
PR 17-MAR-2000; 2000US-0190162.
PR 29-MAR-2000; 2000US-0193404.
PR 13-NOV-2000; 2000US-0247013.
XX
XX (SDGE-) SDGEN INC.
PA
XX
PI Plowman G, Whyte D, Manning G, Sudarsanam S, Martinez R;
XX
DR WPI. 2001-476202/51.
DR N-PSDB; AAH46913.
XX
XX Kinase polypeptides useful for treating cancers, Alzheimer's disease,
PT viral infections, diabetes, obesity, organ transplant rejection and
PT rheumatoid arthritis.

XX
PS Claim 7; Page 217; 218pp; English.
XX
CC The invention provides human protein kinases and protein kinase-like
CC enzymes and polynucleotides encoding the polypeptides. The kinase
CC polypeptides and their modulators are useful for treating a disease or
CC disorder such as cancer, immune-related diseases, cardiovascular disease,
CC brain or neuronal associated disease and metabolic disorders, including
CC cancers of tissues, cancers of hematopoietic origin, diseases of the
CC central nervous system, diseases of the peripheral nervous system,
CC Alzheimer's disease, Parkinson's disease, multiple sclerosis, amyotrophic
CC lateral sclerosis, viral infections, infections caused by prions,
CC bacteria and fungi, ocular diseases, migraines, pain, sexual dysfunction,
CC mood disorders, attention disorders, cognition disorders, hypotension,
CC hypertension, psychotic disorders, neurological disorders, dyskinesias,
CC metabolic disorders, and organ transplant rejection. They are also useful
CC for treating rhinitis, autoimmunity, atherosclerosis, psoriasis,
CC osteoarthritis, asthma, chronic inflammatory pelvic disease, chronic
CC inflammatory bowel disease, rheumatoid arthritis, metabolic disorders
CC such as diabetes, obesity, cardiovascular diseases such as reperfusion
CC injury, coronary thrombosis, clotting disorders and atherosclerosis.
CC ocular diseases such as glaucoma, retinopathy and macular degeneration,
CC psychiatric and neurological disorders such as anxiety, schizophrenia,
CC dementia, manic depression, etc. The polynucleotides are useful in gene
CC therapy techniques to treat the above mentioned disorders. Sequences
CC AAB85491-85522 represent the human protein kinases of the invention.
XX
SQ Sequence 719 AA;
Query Match 96.2%; Score 282; DB 22; Length 719;
Best Local Similarity 94.4%; Pred. No. 6e-33;
Matches 51; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
Qy 1 HRDIKAGNILLLEKIEHDDICNKTITDGLAREWHRTTKMSTAGYAMMAPE 54
Db 261 HRDLKSNILLLEKIEHDDICNKTITDGLAREWHRTTKMSTAGYAMMAPE 314
RESULT 3
AAB61000
XX AAB61000 standard; protein; 1021 AA.
XX
AC AAB61000;
XX
DT 10-SEP-2002 (first entry)
XX
DE Novel human protein. SEQ ID 87.
XX
XX Human; cytosolic; vulnery; antiarteriosclerotic; antiparkinsonian;
KW neurotrophic; neuroprotective; immunosuppressive; haemostatic;
KW antiinflammatory; cardiant; antilucer; virucide; antithyroid;
KW cerebroprotective; anorectic; metabolic; vaccinic; cancer; infection;
KW wound healing disorders; atherosclerosis; Parkinson's disease;
KW Alzheimer's disease; autoimmune disorder; haematopoietic disorder;
KW inflammation; neoplastic disease; nervous system disorder;
KW cardiovascular disorders; pancreatitis; respiratory disorder;
KW hyperproliferation; systemic autoimmune disease; hyper-immunity;
KW developmental abnormality; gastrointestinal ulceration; neuropathy;
KW haematological disease; metabolic disease; sperm dysfunction;
KW thyroid disorder; hypothyroidism; brain damage; colitis;
KW cone photo- transduction deficiency; neurological disease; stroke;
KW anglogenesis; ovulation disorder; spinal cord; thyroid gland; heart;
KW trachea; thymus; lymph node; muscular system; obesity; anorexia;
KW growth abnormality; precocious puberty.
XX
OS Homo sapiens.
XX
PN WO200250105-A1.
XX
XX 27-JUN-2002.
PD
XX
XX 17-DEC-2001; 2001WO-US49232.
XX

PR 19-DEC-2000; 2000US-256710P.
 PR 20-DEC-2000; 2000US-257048P.
 PR 09-JAN-2001; 2001US-260482P.
 PR 30-JAN-2001; 2001US-264922P.
 PR 06-FEB-2001; 2001US-266797P.
 PR 19-MAR-2001; 2001US-276988P.
 PR 04-APR-2001; 2001US-281535P.
 PR 08-MAY-2001; 2001US-289622P.
 XX
 PA (SMIR) SMITHKLINE BEECHAM CORP.
 PA (SMIR) SMITHKLINE BEECHAM PLC.
 PA (GLAX) GLAXO GROUP LTD.
 XX
 PI Agarwal P, Birkeland M, Cogswell JP, Kahnlick KF, Lai Y;
 PI Martensen SA, Rizvi SK, Smith RF, Strum JC, Xie Q;
 DR WPI; 2002-508784/54.
 XX N-PSDB; ABO86165.
 PT Secreted proteins and polynucleotides useful as vaccines for preventing
 PT or treating various diseases e.g. cancer, wounds, atherosclerosis,
 PT Parkinson's disease, Alzheimer's disease, infection, autoimmune
 PT disorder.
 XX
 PS Claim 1(a); Page 307-309; 335pp; English.
 XX
 CC The invention relates to an isolated polypeptide with signal sequences
 CC which allow it to be secreted extracellularly or membrane associated.
 CC The activity of polypeptides of the invention may be described as,
 CC cytostatic, vulnerary, antihypertensive, antiparkinsonian, neurotrophic,
 CC neuroprotective, immunosuppressive, haemostatic, antiinflammatory,
 CC cardiant, anticancer, virucide, antihypertoid, cerebroprotective, anorectic,
 CC and metabolic. Polypeptides and polynucleotides of the invention are
 CC useful in the treatment, or as a vaccine in the prevention of, cancer,
 CC wound healing disorders, infection, atherosclerosis, Parkinson's disease
 CC and Alzheimer's disease, autoimmune disorder, haematopoietic disorder,
 CC inflammation, neoplastic diseases, nervous system related disorders and
 CC cardiovascular disorders, pancreatitis, respiratory disorder,
 CC hyperproliferation, systemic autoimmune disease, hyper-immunity,
 CC developmental abnormality, gastrointestinal ulceration, neuropathy,
 CC haematological diseases, metabolic diseases, sperm dysfunction, thyroid
 CC disorders e.g. hypothyroidism, brain damages, colitis, cone photo-
 CC transduction deficiency, neurological diseases, stroke, angiogenesis,
 CC ovulation disorders, diseases in the spinal cord, thyroid gland, heart,
 CC trachea, thymus, lymph node and muscular system, obesity, anorexia,
 CC growth abnormalities, and alleviation of precocious puberty. The
 CC sequences given in records ABP60965-ABP61019 represent novel human
 CC proteins of the invention.
 XX
 SQ Sequence 1021 AA;
 Query Match 96.2%; Score 282; DB 23; Length 1021;
 Best Local Similarity 94.4%; Pred. No. 9.4e-33;
 Matches 51; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
 QY 1 HRDIAKGNILLLEKIEHDDICNKTITDGLAREWHRTTKMSTAGTYAMMAPE 54
 Db 246 HRDIAKSNILLLEKIEHDDICNKTITDGLAREWHRTTKMSTAGTYAMMAPE 299
 RESULT 4
 ID ABB80923 standard; Protein; 1036 AA.
 AC ABB80923;
 XX
 DT 08-OCT-2002 (first entry)
 XX
 DE Novel human protein (NHP) kinase.
 XX
 KW Novel human protein; NHP; kinase; human; enzyme.
 KW
 OS Homo sapiens.

XX
 FH Key Location/Qualifiers
 FT Misc-difference 925 /note= "encoded by WGT"
 FT
 XX
 PN WO200255685-A2.
 XX
 PD 18-JUL-2002.
 XX
 PF 10-DEC-2001; 2001WO-US47606.
 XX
 PR 11-DEC-2000; 2000US-254744P.
 XX
 PA (LEXI-) LEXICON GENETICS INC.
 XX
 PI Hu Y, Kieke JA, Donoho G;
 PI
 DR WPI; 2002-566739/60.
 DR N-PSDB; ABB86357, ABB86358.
 XX
 PT Novel human kinase polynucleotide encoding a protein that shares
 PT structural similarity with animal kinases for therapeutic, diagnostic
 PT and pharmacogenomic applications -
 XX
 PS Claim 1; Page 37-39; 41pp; English.
 XX
 CC The invention relates to a novel human protein (NHP), kinase that shares
 CC structural similarity with animal kinases. The kinase polynucleotides are
 CC useful in therapeutic, diagnostic and pharmacogenomic applications and
 CC for identifying compounds that modulate, i.e. act as agonists or
 CC antagonists of the gene expression or gene product activity. The present
 CC sequence represents the NHP kinase.
 XX
 SQ Sequence 1036 AA;
 Query Match 96.2%; Score 282; DB 23; Length 1036;
 Best Local Similarity 94.4%; Pred. No. 9.6e-33;
 Matches 51; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
 QY 1 HRDIAKGNILLLEKIEHDDICNKTITDGLAREWHRTTKMSTAGTYAMMAPE 54
 Db 261 HRDIAKSNILLLEKIEHDDICNKTITDGLAREWHRTTKMSTAGTYAMMAPE 314
 RESULT 5
 ID AAE11775 standard; Protein; 1046 AA.
 AC AAE11775;
 XX
 DT 18-DEC-2001 (first entry)
 XX
 DE Human kinase (PKIN)-9 protein.
 XX
 KW Human kinase; PKIN; gene therapy; adenocarcinoma; immune disorder; gout;
 KW cancer; allergy; sarcoma; leukemia; acquired immune deficiency syndrome;
 KW AIDS; Addison's disease; microbial infection; inflammation; osteoporosis;
 KW atherosclerosis; cardiovascular disease; myocardial infarction; anaemia;
 KW myasthenia gravis; cirrhosis; cataract; growth and development disorder;
 KW seizure disorder; pulmonary embolism; Gaucher's disease; lipid disorder;
 KW lipid storage disease; Pick's disease; Tay-Sachs disease; renal disease;
 KW obesity; restorative therapy; immunomodulatory; vaccine; cardiovascular;
 KW antimicrobial; cytostatic; antiinflammatory; asthma.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT Domain 55..114
 FT Domain /note= "SH3 domain"
 FT Domain 134..393
 FT /note= "Eukaryotic protein kinase domain"
 FT Domain 136..386
 FT /note= "Protein kinase domain"

FT	Region	154..207
FT		/note="Receptor tyrosine kinase"
FT	Region	181..228
FT		/note="Receptor tyrosine kinase"
FT	Region	210..223
FT		/note="Tyrosine kinase catalytic site"
FT	Region	232..254
FT		/note="Receptor tyrosine kinase"
FT	Region	248..266
FT		/note="Tyrosine kinase catalytic site"
FT	Region	290..337
FT		/note="Receptor tyrosine kinase"
FT	Region	291..340
FT		/note="Receptor tyrosine kinase"
FT	Region	298..330
FT		/note="Receptor tyrosine kinase"
FT	Region	301..311
FT		/note="Tyrosine kinase catalytic site"
FT	Region	320..342
FT		/note="Tyrosine kinase catalytic site"
FT	Region	337..389
FT		/note="Receptor tyrosine kinase"
FT	Region	345..389
FT		/note="Receptor tyrosine kinase"
FT	Region	356..404
FT		/note="Receptor tyrosine kinase"
FT	Region	364..386
FT		/note="Tyrosine kinase catalytic site"
PN	MO2001B1555-A2.	
XX	01-NOV-2001.	
XX	20-APR-2001; 2001WO-0512992.	
XX	20-APR-2000; 2000US-199021P.	
PR	28-APR-2000; 2000US-200226P.	
PR	05-MAY-2000; 2000US-202339P.	
PR	11-MAY-2000; 2000US-203505P.	
PR	18-MAY-2000; 2000US-205564P.	
PR	26-MAY-2000; 2000US-207739P.	
PR	01-JUN-2000; 2000US-208795P.	
PA	(INCY-) INCYTE GENOMICS INC.	
XX	Yue H, Gandhi AR, Tribouley CM, Kearney L, Griffin JA, Nguyen DB;	
PI	Bandman O, Lu DM, Lai P, Burford N, Khan FA, Walla NK, Yao MG;	
PI	Patterson C, Burrill JD, Marcus GA, Zingler KA, Reardon SA, Lu Y;	
PI	Pollick JL, Thornton M, Tang YF, Hafalia A, Elliott VS, Baughn MR;	
PI	Walsh RT, Ramkumar J, Borowsky ML, Au-young J, Hillman JL;	
XX	Gururajan R;	
DR	WPI: 2001-611740/70.	
XX	N-PSDB: AAD18824.	
PT	Human kinases and nucleic acids, useful for preventing diagnosing and	
PT	treating cancers, inflammation and immune disorders -	
PS	Claim 1; Page 134-136; 16pp; English.	
XX	The present invention relates to human kinases (PKIN) and the nucleic	
CC	acids encoding them. PKIN is used as vaccine and in gene therapy. PKIN	
CC	used in the prevention, diagnosis and treatment of diseases cancers,	
CC	adenocarcinoma, leukaemia, sarcoma, immune disorder, Addison's disease,	
CC	acquired immune deficiency syndrome (AIDS), anaemia, asthma, allergies,	
CC	gout, microbial infections, cardiovascular disease and/or inflammation,	
CC	myasthenia gravis, atherosclerosis, cirrhosis, osteoporosis, myocardial	
CC	infarction, grafts, growth and development disorder, seizure disorder	
CC	pulmonary embolism, Gaucher's disease, lipid disorder, lipid storage	
CC	disease, Pick's disease, Tay-Sachs disease, renal disease and obesity.	
CC	PKIN may be used to treat disorders associated with decreased PKIN	
CC	expression by rectifying mutations or deletions in a patient's genome	
CC	that affect the activity of PKIN by expressing inactive proteins or to	

[illegible]

PR 31-AUG-2000; 2000US-229873P.
PR 08-SEP-2000; 2000US-231357P.
PR 14-SEP-2000; 2000US-232654P.
PR 22-SEP-2000; 2000US-234902P.
PR 29-SEP-2000; 2000US-236499P.
PR 06-OCT-2000; 2000US-238389P.
PR 13-OCT-2000; 2000US-240542P.
XX
PA (INCYTE) INCYTE GENOMICS INC.
XX
PI Bandman O, Nguyen DB, Walia NK, Hafalia AJA, Yao MG, Gandhi AR,
PI Gururajan R, Ding L, Patterson C, Yue H, Baughn MR, Tribouley CM,
PI Thornton M, Elliott VS, Lu Y, Ison CH, Au-Young J, Tang YT,
PI Azimkai V, Burrill JD, Marcus GA, Zingler KA, Lu DAM, Lal PG,
PI Ramkumar J, Warren BA, Kearney L, Policky JL, Thangavelu K,
PI Burford N;
XX
DR WPI: 2002-329769/36.
DR N-PSDB: AAD34309.
XX
PT New human kinases, useful for diagnosing, treating or preventing immune
PT system disorders (e.g. Crohn's disease), neurological disorders (e.g.
PT epilepsy), or cell proliferative disorders (e.g. cancers such as
PT leukemia or lymphoma)
XX
PS Claim 67; Page 171-173; 218pp; English.
XX
CC The present invention relates to human kinases (PKIN) and polynucleotides
CC encoding such proteins. PKIN sequences of the invention are useful for
CC diagnosing, treating or preventing disorders associated with aberrant
CC expression of PKIN, particularly immune system disorders (e.g. acquired
CC immune deficiency syndrome (AIDS), thymic hypoplasia, Crohn's disease,
CC anaemia, asthma), neurological disorders (e.g. epilepsy, Charcot-Marie-
CC tooth disease or seizures), cell proliferative disorders (e.g. cancers
CC such as adenocarcinoma, leukaemia, lymphoma, melanoma, sarcoma),
CC and developmental disorders (e.g. Down's syndrome). They are also used
CC in gene therapy and protein therapy. The present sequence is human
CC PKIN-12 protein.
XX
SQ Sequence 1097 AA;
XX
Query Match 81.6%; Score 239; DB 23; Length 1097;
Best Local Similarity 77.8%; Pred. No. 2.7e-26;
Matches 42; Conservative 7; Mismatches 5; Indels 0; Gaps 0;
OY 1 HRDIKAGNILLLEKIEHDDICNKTITDGLAREHRTTKMSTAGTYAMWAP 54
DB 266 HRDLKSSNILLIQFVSGDLSNKLITITDGLAREHRTTKMSTAGTYAMWAP 319
XX
RESULT 7
AAE22763
ID AAE22763 standard; Protein; 847 AA.
XX
AC AAE22763;
XX
DT 09-AUG-2002 (first entry)
XX
DE Human mitogen activated protein kinase, MAP3K11.
XX
KW Human; cytosolic; antitense gene therapy; screening; protein kinase;
KW cancer; liver; colon; tumour; inflammation; arthritic synovium; MAP3K11;
KW enzyme; mitogen activated protein kinase.
XX
OS Homo sapiens.
XX
PN WO200224947-A2.
XX
PD 28-MAR-2002.
XX
PR 20-SEP-2001; 2001WO-IB02237.
XX
PE 20-SEP-2000; 2000US-233999P.
XX

PR 02-OCT-2000; 2000US-237419P.
PR 02-OCT-2000; 2000US-237423P.
PR 04-OCT-2000; 2000US-238558P.
PR 10-MAY-2001; 2001US-290555P.
XX
PA (KINE-) KINETEK PHARM INC.
PA (UTBR-) UNIV BRITISH COLUMBIA.
XX
PI Yoganathan T, Delaney AD;
XX
DR WPI: 2002-394145/42.
DR N-PSDB: AAD36139.
XX
PT Diagnosing cancer, comprises determining the upregulation of expression
PT of a nucleic acid sequence encoding a protein kinase or upregulation of
PT expression of the protein kinase, in the cancer
XX
PS Claim 1; Page 60-62; 87pp; English.
XX
CC The invention relates to a method for screening biologically active agent
CC that modulates cancer associated protein kinase function. The invention
CC also relates to a method for diagnosing cancer comprising determining the
CC upregulation of expression of a nucleic acid sequence encoding a protein
CC kinase. The method is useful for diagnosing cancer. A protein kinase is
CC useful for screening biological agents that modulate cancer associated
CC protein kinase function. Downregulating the activity of protein kinase is
CC useful for inhibiting the growth of a cancer cell, e.g. liver or colon
CC cancer. A nucleic acid encoding protein kinase is useful to screen biopsy
CC derived tumours and inflammatory samples such as arthritic synovium, for
CC amplified DNA in the cell or increased expression of corresponding mRNA
CC or protein and is also useful to detect differences in expression levels
CC such as molecular weight, amino acid and nucleotide sequences between the
CC two cells. The present sequence is human mitogen activated protein
CC kinase, MAP3K11.
XX
SQ Sequence 847 AA;
XX
Query Match 78.8%; Score 231; DB 23; Length 847;
Best Local Similarity 77.8%; Pred. No. 3e-25;
Matches 42; Conservative 7; Mismatches 5; Indels 0; Gaps 0;
OY 1 HRDIKAGNILLLEKIEHDDICNKTITDGLAREHRTTKMSTAGTYAMWAP 54
DB 239 HRDLKSSNILLIQFVSGDLSNKLITITDGLAREHRTTKMSTAGTYAMWAP 292
XX
RESULT 8
AAO05527
ID AAO05527 standard; Protein; 138 AA.
XX
AC AAO05527;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human polypeptide SEQ ID NO 19419.
XX
KW Human; cytokine; cell proliferation; cell differentiation; gene therapy;
KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
KW tissue growth factor; immunomodulatory; cancer; leukaemia;
KW nervous system disorders; arthritis; inflammation.
XX
OS Homo sapiens.
XX
PN WO200164835-A2.
XX
PD 07-SEP-2001.
XX
PE 26-FEB-2001; 2001WO-US04927.
XX
PR 18-FEB-2000; 2000US-0515126.
XX
PR 18-MAY-2000; 2000US-0577409.
XX
PA (HYSE-) HYSEQ INC.

XX Tang YT, Liu C, Drmanac RT;
 XX
 DR WPI: 2001-514838/56.
 DR N-PSDB; AAI85458.
 XX
 PT Isolated nucleic acids and polypeptides, useful for preventing
 PT diagnosing and treating e.g. leukaemia, inflammation and immune
 PT disorders -
 XX
 PS Claim 20; SEQ ID NO 19419; 1399pp + Sequence Listing; English.
 XX
 CC The invention relates to human polynucleotides (AAI79941-AAI93841) and
 CC the encoded proteins (AAO00010-AAO13910) that exhibit activity elating to
 CC cytokine, cell proliferation or cell differentiation or which may induce
 CC production of other cytokines in other cell populations. The
 CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
 CC peptide therapy. The polypeptides have various cytokine-like activities,
 CC e.g. stem cell growth factor activity, haematopoiesis regulating
 CC activity, tissue growth factor activity, immunomodulatory activity and
 CC activin/inhibin activity and may be useful in the diagnosis and/or
 CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
 CC inflammation.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.
 CC
 XX
 SQ Sequence 138 AA;
 XX
 Query Match 74.4%; Score 218; DB 22; Length 138;
 Best Local Similarity 78.0%; Pred. No. 2.5e-24;
 Matches 39; Conservative 6; Mismatches 5; Indels 0; Gaps 0;
 OY 5 KAGNILLLEKIEHDDICNTKITDPGLAREWHRTKMTAGTYAMAPE 54
 1 KSNIIILQKVENGLSNKITKITDPGLAREWHRTKMTAGTYAMAPE 50
 DB
 RESULT 9
 ABB58999
 ID ABB58999 standard; Protein; 1020 AA.
 XX
 AC ABB58999;
 XX
 DT 26-MAR-2002 (first entry)
 XX
 DE Drosophila melanogaster polypeptide SEQ ID NO 3789.
 XX
 KW Drosophila: developmental biology; cell signalling; insecticide;
 KW pharmaceutical.
 XX
 OS Drosophila melanogaster.
 XX
 PN WO200171042-A2.
 XX
 PD 27-SEP-2001.
 XX
 PE 23-MAR-2001; 2001WO-US09231.
 XX
 PR 23-MAR-2000; 2000US-191637P.
 PR 11-JUL-2000; 2000US-0614150.
 XX
 PA (PEKE) PE CORP NY.
 XX
 PI Venter JC, Adams M, Li FWD, Myers EW;
 XX
 DR WPI: 2001-656860/75.
 DR N-PSDB; ABL03102.
 XX
 PT New isolated nucleic acid detection reagent for detecting 1000 or more
 PT genes from Drosophila and for elucidating cell signalling and cell-cell
 PT interactions -
 XX

PS Disclosure; SEQ ID NO 3789; 21pp + Sequence Listing; English.
 XX
 CC The invention relates to an isolated nucleic acid detection reagent
 CC capable of detecting 1000 or more genes from Drosophila. The invention is
 CC useful in developmental biology and in elucidating cell signalling and
 CC cell-cell interactions in higher eukaryotes for the development of
 CC insecticides, therapeutics and pharmaceutical drugs. The invention
 CC discloses genomic DNA sequences (ABL016176-ABL30511), expressed DNA
 CC sequences (ABL01840-ABL016175) and the encoded proteins
 CC (ABB57737-ABB72072).
 CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.
 CC
 XX
 SQ Sequence 1020 AA;
 XX
 Query Match 62.8%; Score 184; DB 22; Length 1020;
 Best Local Similarity 63.0%; Pred. No. 4e-18;
 Matches 34; Conservative 8; Mismatches 12; Indels 0; Gaps 0;
 OY 1 HRDIIKGNILLLEKIEHDDICNTKITDPGLAREWHRTKMTAGTYAMAPE 54
 DB 249 HRDLKSNVILYPAIEGNHLLQOKTKITDPGLAREWHRTKMTAGTYAMAPE 302
 RESULT 10
 AAR85933
 ID AAR85933 standard; Peptide; 45 AA.
 XX
 AC AAR85933;
 XX
 DT 14-FEB-1996 (first entry)
 XX
 DE Protein tyrosine-kinase LpTK4 fragment.
 XX
 KW Protein tyrosine-kinase; pTK; LpTK4; agonist; cell growth;
 KW differentiation.
 XX
 OS Homo sapiens.
 XX
 PN WO9527061-A1.
 XX
 PD 12-OCT-1995.
 XX
 PE 04-APR-1995; 95WO-US04228.
 XX
 PR 04-APR-1994; 94US-0222616.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Bennett BD, Goeddel D, Lee JM, Matthews W, Tsai SP;
 PI Wood WI;
 XX
 DR WPI: 1995-366160/47.
 DR N-PSDB; AAT03094.
 XX
 PT Agonist antibodies which activate specific protein tyrosine
 PT kinase(s) - also activate chimeric proteins of kinase extracellular
 PT domain and Ig constant domain, useful for studying, and therapeutic
 PT modulation of, cell growth and differentiation
 XX
 PS Disclosure; Page 38; 125pp; English.
 XX
 CC DNA probes based on protein tyrosine-kinase (pTK) sequences were used
 CC to screen cDNA libraries to identify novel pTK genes. A LpTK4 gene
 CC fragment (AAT03094) was isolated from lymphocytic and megakaryocytic
 CC cell line libraries and encoded a peptide (AAR85933) showing homology
 CC to known pTKs. The LpTK4 peptide can be used in the design of
 CC drugs that modulate pTK activity.
 CC
 XX
 SQ Sequence 45 AA;
 XX
 Query Match 59.0%; Score 173; DB 16; Length 45;

FT	Misc-difference	240	/note= "Mentioned in specification"
FT	Misc-difference	240	/note= "Mentioned in specification"
FT	Misc-difference	251	/note= "Mentioned in specification"
FT	Misc-difference	251	/note= "Mentioned in specification"
FT	Misc-difference	254..256	/note= "Mentioned in specification"
FT	Misc-difference	278..280	/note= "Mentioned in specification"
FT	Misc-difference	292	/note= "Mentioned in specification"
FT	Misc-difference	294..295	/note= "Mentioned in specification"
FT	Misc-difference	297	/note= "Mentioned in specification"
FT	Misc-difference	415..418	/note= "Mentioned in specification"
FT	Misc-difference	418	/note= "putative endoplasmic reticulum targeting sequence as given in the specification"
FT	Region	442..468	/label= Leucine zipper motif
FT	Misc-difference	443	/note= "As stated in specification"
FT	Misc-difference	450	/note= "Mentioned in specification"
FT	Misc-difference	457	/note= "Mentioned in specification"
FT	Misc-difference	464	/note= "Mentioned in specification"
FT	Misc-difference	537..544	/label= ATP_binding_site
FT	Misc-difference	544	/note= "As stated in specification"
PN	US5676945-A.		
PD	14-OCT-1997.		
XX	01-MAR-1994;	94US-0205018.	
XX	28-FEB-1995;	95US-0395580.	
PR	01-MAR-1994;	94US-0205018.	
XX	(CHIL-) CHILDBRENS HOSPITAL PHILADELPHIA.		
PA	Pleasure D, Reddy U;		
PI	WPI, 1997-511822/47.		
DR	N-Psdb; AAm89349.		
XX	Human leucine-zipper protein kinase - useful for treating tumours of the central nervous system		
PT	Claim 3; Fig 1; 19pp; English.		
PS	This sequence represents a novel human leucine-zipper protein kinase isolated from brain tissue. The specification states that the protein contains an ATP-binding site at position 537-544 (consensus sequence Gly-Xaa-Gly-Xaa-Gly), a protein kinase domain at position 231-243 and a putative endoplasmic reticulum (ER) targeting sequence at position 413-418 (consensus sequence REEF). This protein is most similar to members of serine/threonine protein kinases and is believed to be a "non-receptor type kinase" based on its lack of a transmembrane domain. Probes to this protein could be used for diagnostic or research purposes to detect or quantitate the expression of leucine-zipper protein kinase. Overexpression of leucine zipper protein kinase can result in hyperproliferation of cells and metastasis. The application of exogenous leucine-zipper protein kinase may interfere with specific protein-protein or protein-nucleic acid interactions involved in hyperproliferation. This may be used to treat animals suffering from tumours of the central nervous system by inhibiting the overexpression of leucine-zipper protein kinase in vivo or by interfering with a vital signal in the chain of signals leading to tumourigenicity.		
XX			

[illegible]

RESULT 14	
ABB57049	
ID	ABB57049 standard; Protein; 888 AA

AC	ABB57049;
XX	
DT	07-MAR-2002 (first entry)

DE	Mouse	ischaemic condition related protein sequence SEQ ID NO:79
XX	Mouse; ischaemia; compressive ischaemia; occlusive ischaemia; vasospastic ischaemia; ischaemic condition; ischaemic disease.	

OS Mus musculus.

PN W0200188188-A2.

PD 22-NOV-2001.

PF 18-MAY-2001; 2001WO-JP04192.

PR 18-MAY-2000; 2000JP-0145977.

PA (UYNI-) UNIV NIHON SCHOOL JURIDICAL PERSON

PI Ishikawa K, Asai S, Takahashi Y, Naqata T, Ishii Y.

DR WPI; 2002-034733/04.

XX

PT Examining the ischemic condition (e.g. occlusive ischemia) by measuring PT expression levels of particular genes defined in the specification or PT by determining the expression profile of a gene group comprising these PT genes -

PS Claim 2; Page 244-248; 2690pp; English.

The present invention describes a method for examining ischaemic conditions, comprising measuring the expression levels of particular genes (1) in a test sample or determining the expression profile of a gene group in the sample comprising genes selected from (1). The method is useful for examining the ischaemic condition (e.g. compressive ischaemia, occlusive ischaemia or vasospastic ischaemia) by measuring expression levels of particular genes (AB199202 to AB199912, encoding the protein sequences in AB857020 to AB857374) or by determining the expression profile of a gene group comprising these genes. The expression levels or expression profiles produced by these genes are used as an indicator when screening for ischaemic condition-improving drugs or therapeutics for ischaemic diseases. AB199913 and AB199914 represent PCR primers for a mouse ischaemic condition related sequence, which are used in the exemplification of the present invention.

Sequence 888 AA;

Query Match	42.5%	Score 124.5;	DB 23;	length 888;
Best Local Similarity	50.9%;	Pred. No. 2.5e-09;		
Matches 28;	Conservative 11;	Mismatches 7;	Indels 9;	Gaps 3;

Qy	1	HRDIKAGNILLLEKIEHDDICNKLKTJDEGLAREW-HRTTKMSTAGTYAMPAE	54
Db	267	HRDLKSPNNL-----ITYDYV---VKISDFGTSKELSDKSTKMSFAGTYAMPAE	313

RESULT 15
AAG28423
ID AAG28423 standard. Protein; 276 AA.
XX
AC AAG28423;
XX
DT 17-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana protein fragment SEQ ID NO: 33634.
XX
KW Protein identification; signal transduction pathway; metabolic pathway;
KM hybridisation assay; genetic mapping; gene expression control; promoter;
XX termination sequence.
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
XX
PD 06-SEP-2000.
XX
PE 25-FEB-2000; 2000EP-0301439.
XX
PR 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
PR 25-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
PR 08-APR-1999; 99US-0128714.
PR 16-APR-1999; 99US-0129845.
PR 19-APR-1999; 99US-0130077.
PR 21-APR-1999; 99US-0130449.
PR 23-APR-1999; 99US-0130510.
PR 28-APR-1999; 99US-0130891.
PR 30-APR-1999; 99US-0131449.
PR 30-APR-1999; 99US-0132048.
PR 30-APR-1999; 99US-0132407.
PR 04-MAY-1999; 99US-0132484.
PR 05-MAY-1999; 99US-0132485.
PR 06-MAY-1999; 99US-0132486.
PR 06-MAY-1999; 99US-0132487.
PR 07-MAY-1999; 99US-0132863.
PR 11-MAY-1999; 99US-0134256.
PR 14-MAY-1999; 99US-0134218.
PR 14-MAY-1999; 99US-0134219.
PR 14-MAY-1999; 99US-0134221.
PR 14-MAY-1999; 99US-0134370.
PR 18-MAY-1999; 99US-0134768.
PR 19-MAY-1999; 99US-0134941.
PR 20-MAY-1999; 99US-0135124.
PR 21-MAY-1999; 99US-0135353.
PR 24-MAY-1999; 99US-0135629.
PR 25-MAY-1999; 99US-0136021.
PR 27-MAY-1999; 99US-0136392.
PR 28-MAY-1999; 99US-0136782.
PR 01-JUN-1999; 99US-0137222.
PR 03-JUN-1999; 99US-0137528.
PR 04-JUN-1999; 99US-0137502.
PR 07-JUN-1999; 99US-0137724.
PR 08-JUN-1999; 99US-0138094.
PR 10-JUN-1999; 99US-0138540.
PR 10-JUN-1999; 99US-0138847.
PR 14-JUN-1999; 99US-0139119.
PR 16-JUN-1999; 99US-0139452.
PR 16-JUN-1999; 99US-0139453.
PR 17-JUN-1999; 99US-0139492.
PR 18-JUN-1999; 99US-0139454.
PR 18-JUN-1999; 99US-0139455.
PR 18-JUN-1999; 99US-0139456.
PR 18-JUN-1999; 99US-0139457.

PR 18-JUN-1999; 99US-0139458.
PR 18-JUN-1999; 99US-0139459.
PR 18-JUN-1999; 99US-0139460.
PR 18-JUN-1999; 99US-0139461.
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PR 18-JUN-1999; 99US-0139463.
PR 18-JUN-1999; 99US-0139465.
PR 18-JUN-1999; 99US-0139750.
PR 21-JUN-1999; 99US-0139763.
PR 22-JUN-1999; 99US-0139817.
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PR 24-JUN-1999; 99US-0140695.
PR 28-JUN-1999; 99US-0140823.
PR 29-JUN-1999; 99US-0140991.
PR 30-JUN-1999; 99US-0141287.
PR 01-JUL-1999; 99US-0141842.
PR 01-JUL-1999; 99US-0142154.
PR 02-JUL-1999; 99US-0142055.
PR 06-JUL-1999; 99US-0142390.
PR 08-JUL-1999; 99US-0142803.
PR 09-JUL-1999; 99US-0142920.
PR 12-JUL-1999; 99US-0142977.
PR 13-JUL-1999; 99US-0143542.
PR 14-JUL-1999; 99US-0143624.
PR 15-JUL-1999; 99US-0144005.
PR 16-JUL-1999; 99US-0144085.
PR 16-JUL-1999; 99US-0144086.
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PR 19-JUL-1999; 99US-0144331.
PR 19-JUL-1999; 99US-0144332.
PR 19-JUL-1999; 99US-0144333.
PR 19-JUL-1999; 99US-0144334.
PR 19-JUL-1999; 99US-0144335.
PR 20-JUL-1999; 99US-0144352.
PR 20-JUL-1999; 99US-0144632.
PR 20-JUL-1999; 99US-0144684.
PR 21-JUL-1999; 99US-0144814.
PR 21-JUL-1999; 99US-0145086.
PR 21-JUL-1999; 99US-0145088.
PR 22-JUL-1999; 99US-0145085.
PR 22-JUL-1999; 99US-0145087.
PR 22-JUL-1999; 99US-0145089.
PR 22-JUL-1999; 99US-0145192.
PR 23-JUL-1999; 99US-0145145.
PR 23-JUL-1999; 99US-0145218.
PR 23-JUL-1999; 99US-0145224.
PR 26-JUL-1999; 99US-0145276.
PR 27-JUL-1999; 99US-0145913.
PR 27-JUL-1999; 99US-0145918.
PR 27-JUL-1999; 99US-0145919.
PR 28-JUL-1999; 99US-0145951.
PR 02-AUG-1999; 99US-0146386.
PR 02-AUG-1999; 99US-0146388.
PR 02-AUG-1999; 99US-0146389.
PR 03-AUG-1999; 99US-0147038.
PR 04-AUG-1999; 99US-0147204.
PR 04-AUG-1999; 99US-0147302.
PR 05-AUG-1999; 99US-0147192.
PR 05-AUG-1999; 99US-0147260.
PR 06-AUG-1999; 99US-0147303.
PR 06-AUG-1999; 99US-0147416.
PR 09-AUG-1999; 99US-0147493.
PR 09-AUG-1999; 99US-0147935.
PR 10-AUG-1999; 99US-0148171.
PR 11-AUG-1999; 99US-0148319.
PR 12-AUG-1999; 99US-0148341.
PR 13-AUG-1999; 99US-0148365.
PR 13-AUG-1999; 99US-0148684.
PR 16-AUG-1999; 99US-0149368.
PR 17-AUG-1999; 99US-0149175.
PR 18-AUG-1999; 99US-0149426.
PR 20-AUG-1999; 99US-0149722.

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PR 20-AUG-1999; 99US-0149723.
PR 20-AUG-1999; 99US-0149929.
PR 23-AUG-1999; 99US-0149902.
PR 23-AUG-1999; 99US-0149930.
PR 23-AUG-1999; 99US-0150566.
PR 26-AUG-1999; 99US-0150884.
PR 27-AUG-1999; 99US-0151065.
PR 27-AUG-1999; 99US-0151066.
PR 27-AUG-1999; 99US-0151080.
PR 30-AUG-1999; 99US-0151303.
PR 31-AUG-1999; 99US-015138.
PR 01-SEP-1999; 99US-0151930.
PR 07-SEP-1999; 99US-0152363.
PR 10-SEP-1999; 99US-0153070.
PR 13-SEP-1999; 99US-0153758.
PR 15-SEP-1999; 99US-0154018.
PR 16-SEP-1999; 99US-0154039.
PR 20-SEP-1999; 99US-0154779.
PR 22-SEP-1999; 99US-0155139.
PR 23-SEP-1999; 99US-0155486.
PR 24-SEP-1999; 99US-0155659.
PR 28-SEP-1999; 99US-0156458.
PR 29-SEP-1999; 99US-0156596.
PR 04-OCT-1999; 99US-0157117.
PR 05-OCT-1999; 99US-0157753.
PR 06-OCT-1999; 99US-0157865.
PR 07-OCT-1999; 99US-0158029.
PR 08-OCT-1999; 99US-0158232.
PR 12-OCT-1999; 99US-0158369.
PR 13-OCT-1999; 99US-0158293.
PR 13-OCT-1999; 99US-0159294.
PR 13-OCT-1999; 99US-0159295.
PR 14-OCT-1999; 99US-0159329.
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PR 14-OCT-1999; 99US-0159637.
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PR 18-OCT-1999; 99US-0159584.
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PR 22-OCT-1999; 99US-0160989.
PR 25-OCT-1999; 99US-0161404.
PR 25-OCT-1999; 99US-0161405.
PR 25-OCT-1999; 99US-0161406.
PR 26-OCT-1999; 99US-0161359.
PR 26-OCT-1999; 99US-0161360.
PR 26-OCT-1999; 99US-0161361.
PR 28-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161922.
PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

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Query Match      41.6%; Score 122; DB 21; Length 276;
Best Local Similarity 51.8%; Pred No. 1.3e-09;
Matches 29; Conservative 6; Mismatches 11; Indels 10; Gaps 3;

OY 1 HRD1AGN1LL1EKT1EHDD1CKNTK1TD1D1GLAREWHRTTKMSTA--GT1AMMAPE 54
DB 72 HRDLKPKEN1LL1TAD-----HKT1K1AD1E1GLARE-ES1TEM1TA1ETG1YRMMAPE 119

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